

Refine Search

Search Results -

Terms	Documents
L12 and carbonylat\$6	0

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 IBM Technical Disclosure Bulletins

Search:

L13

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DATE: Friday, January 28, 2005 [Printable Copy](#) [Create Case](#)

Set Name **Query**
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Hit Count **Set Name**
 result set

DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L13</u>	L12 and carbonylat\$6	0	<u>L13</u>
<u>L12</u>	L11 and ester	25	<u>L12</u>
<u>L11</u>	L10 and recycl\$6 and catalyst	28	<u>L11</u>
<u>L10</u>	L9 and hydrol\$6	436	<u>L10</u>
<u>L9</u>	lactic acid.ti.	5414	<u>L9</u>
<u>L8</u>	L7 and hydrol\$6	3	<u>L8</u>
<u>L7</u>	L6 and carbonyla\$6	3	<u>L7</u>
<u>L6</u>	L3 and vinyl acetate	14	<u>L6</u>
<u>L5</u>	L3 and enol acyla\$6	0	<u>L5</u>
<u>L4</u>	L3 and enol ester	6	<u>L4</u>
<u>L3</u>	L2 and recyc\$7 and catalyst	76	<u>L3</u>
<u>L2</u>	L1 and (carbony\$6 or alkoxy carbony\$6)	1191	<u>L2</u>
<u>L1</u>	hydroxy carboxylic acid	7118	<u>L1</u>

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Search Results - Record(s) 1 through 3 of 3 returned.

☒ 1. Document ID: US 5874639 A

Using default format because multiple data bases are involved.

L7: Entry 1 of 3

File: USPT

Feb 23, 1999

US-PAT-NO: 5874639

DOCUMENT-IDENTIFIER: US 5874639 A

TITLE: Metal-ligand complex catalyzed processes

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nicholson; James Clair	St. Albans	WV		
Bryant; David Robert	South Charleston	WV		
Nelson; James Russell	Charleston	WV		
Briggs; John Robert	Charleston	WV		
Packett; Diane Lee	South Charleston	WV		
Maher; John Michael	Charleston	WV		

US-CL-CURRENT: 568/454; 568/451

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 5763679 A

L7: Entry 2 of 3

File: USPT

Jun 9, 1998

US-PAT-NO: 5763679

DOCUMENT-IDENTIFIER: US 5763679 A

TITLE: Metal-ligand complex catalyzed processes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 5744650 A

L7: Entry 3 of 3

File: USPT

Apr 28, 1998

US-PAT-NO: 5744650

DOCUMENT-IDENTIFIER: US 5744650 A

TITLE: Metal-Ligand complex catalyzed processes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMC	Draw. D.
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Terms

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L6 and carbonyla\$6

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Terms	Documents
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L7

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DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L7</u>	L6 and carbonyla\$6	3	<u>L7</u>
<u>L6</u>	L3 and vinyl acetate	14	<u>L6</u>
<u>L5</u>	L3 and enol acyla\$6	0	<u>L5</u>
<u>L4</u>	L3 and enol ester	6	<u>L4</u>
<u>L3</u>	L2 and recyc\$7 and catalyst	76	<u>L3</u>
<u>L2</u>	L1 and (carbony\$6 or alkoxy carbony\$6)	1191	<u>L2</u>
<u>L1</u>	hydroxy carboxylic acid	7118	<u>L1</u>

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☐ 21. Document ID: US 5210296 A

Using default format because multiple data bases are involved.

L12: Entry 21 of 25

File: USPT

May 11, 1993

US-PAT-NO: 5210296

DOCUMENT-IDENTIFIER: US 5210296 A

TITLE: Recovery of lactate esters and lactic acid from fermentation broth

DATE-ISSUED: May 11, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cockrem; Michael C. M.	Madison	WI		
Johnson; Pride D.	Glenbeulah	WI		

US-CL-CURRENT: 562/589; 560/179, 562/580

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 5071754 A

L12: Entry 22 of 25

File: USPT

Dec 10, 1991

US-PAT-NO: 5071754

DOCUMENT-IDENTIFIER: US 5071754 A

TITLE: Production of esters of lactic acid, esters of acrylic acid, lactic acid, and acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 4072709 A

L12: Entry 23 of 25

File: USPT

Feb 7, 1978

US-PAT-NO: 4072709

DOCUMENT-IDENTIFIER: US 4072709 A

**** See image for Certificate of Correction ****TITLE: Production of lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 24. Document ID: ES 2180952 T3, WO 9815519 A2, AU 9748937 A, EP 932594 A2, IL 119388 A, US 6160173 A, BR 9712224 A, EP 932594 B1, DE 69714278 E

L12: Entry 24 of 25

File: DWPI

Feb 16, 2003

DERWENT-ACC-NO: 1998-286428

DERWENT-WEEK: 200321

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TITLE: Recovery of lactic acid from aqueous solutions as ester or amide - by contact with anion exchanger, then reacting directly with alcohol or amine without acidification

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 25. Document ID: US 2350370 A

L12: Entry 25 of 25

File: USOC

Jun 6, 1944

US-PAT-NO: 2350370

DOCUMENT-IDENTIFIER: US 2350370 A

TITLE: Lactic acid purification

DATE-ISSUED: June 6, 1944

INVENTOR-NAME: SCHOPMEYER HERMAN H; ARNOLD CHARLES R

US-CL-CURRENT: 562/589, 560/179

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 5714618 A

Using default format because multiple data bases are involved.

L12: Entry 11 of 25

File: USPT

Feb 3, 1998

US-PAT-NO: 5714618

DOCUMENT-IDENTIFIER: US 5714618 A

TITLE: Polymer containing lactic acid as its constituting unit and method for producing the same

DATE-ISSUED: February 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kimura; Kunio	Ohtsu			JP
Ito; Takeshi	Ohtsu			JP
Aoyama; Tomohiro	Ohtsu			JP
Uno; Keiichi	Ohtsu			JP
Hotta; Kiyoshi	Ohtsu			JP
Arichi; Minako	Ohtsu			JP

US-CL-CURRENT: 549/263; 525/408, 525/411, 525/413, 525/415, 528/354, 528/361, 528/480, 549/266, 549/273, 549/295

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 12. Document ID: US 5700344 A

L12: Entry 12 of 25

File: USPT

Dec 23, 1997

US-PAT-NO: 5700344

DOCUMENT-IDENTIFIER: US 5700344 A

TITLE: Biodegradable/compostable hot melt adhesives comprising polyester of lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 13. Document ID: US 5618911 A

L12: Entry 13 of 25

File: USPT

Apr 8, 1997

US-PAT-NO: 5618911

DOCUMENT-IDENTIFIER: US 5618911 A

** See image for Certificate of Correction **

TITLE: Polymer containing lactic acid as its constituting unit and method for producing the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 5574129 A

L12: Entry 14 of 25

File: USPT

Nov 12, 1996

US-PAT-NO: 5574129

DOCUMENT-IDENTIFIER: US 5574129 A

TITLE: Process for producing lactic acid polymers and a process for the direct production of shaped articles from lactic acid polymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 5506123 A

L12: Entry 15 of 25

File: USPT

Apr 9, 1996

US-PAT-NO: 5506123

DOCUMENT-IDENTIFIER: US 5506123 A

TITLE: Municipal solid waste processing facility and commercial lactic acid production process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 5374743 A

L12: Entry 16 of 25

File: USPT

Dec 20, 1994

US-PAT-NO: 5374743

DOCUMENT-IDENTIFIER: US 5374743 A

TITLE: Process for the synthesis of lactide or glycolide from lactic acid or glycolide acid oligomers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 5332839 A

L12: Entry 17 of 25

File: USPT

Jul 26, 1994

US-PAT-NO: 5332839

DOCUMENT-IDENTIFIER: US 5332839 A

**** See image for Certificate of Correction ****TITLE: Catalytic production of lactide directly from lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 5274127 A

L12: Entry 18 of 25

File: USPT

Dec 28, 1993

US-PAT-NO: 5274127

DOCUMENT-IDENTIFIER: US 5274127 A

TITLE: Lactide production from dehydration of aqueous lactic acid feed

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 19. Document ID: US 5252473 A

L12: Entry 19 of 25

File: USPT

Oct 12, 1993

US-PAT-NO: 5252473

DOCUMENT-IDENTIFIER: US 5252473 A

TITLE: Production of esters of lactic acid, esters of acrylic acid, lactic acid, and acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 20. Document ID: US 5247059 A

L12: Entry 20 of 25

File: USPT

Sep 21, 1993

US-PAT-NO: 5247059

DOCUMENT-IDENTIFIER: US 5247059 A

**** See image for Certificate of Correction ****TITLE: Continuous process for the manufacture of a purified lactide from esters of lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 1. Document ID: US 6534679 B2

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L12: Entry 1 of 25

File: USPT

Mar 18, 2003

US-PAT-NO: 6534679

DOCUMENT-IDENTIFIER: US 6534679 B2

** See image for Certificate of Correction **

TITLE: Lactic acid processing; methods; arrangements; and, products

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eyal; Aharon M.	Jerusalem			IL
Starr; John N.	Chaska	MN		
Fisher; Rod	Eden Prairie	MN		
Hazan; Betty	Jerusalem			IL
Canari; Riki	Beit Zeit			IL
Witzke; David R.	Oskaloosa	IA		
Gruber; Patrick R.	Blaine	MN		
Kolstad; Jeffrey J.	Wayzata	MN		

US-CL-CURRENT: 562/589; 435/139, 562/580, 562/593

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 6403844 B1

L12: Entry 2 of 25

File: USPT

Jun 11, 2002

US-PAT-NO: 6403844

DOCUMENT-IDENTIFIER: US 6403844 B1

** See image for Certificate of Correction **

TITLE: Condensed phase catalytic hydrogenation of lactic acid to propylene glycol

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 6365680 B1

L12: Entry 3 of 25

File: USPT

Apr 2, 2002

US-PAT-NO: 6365680

DOCUMENT-IDENTIFIER: US 6365680 B1

TITLE: Biodegradable/compostable hot melt adhesives comprising polyester of lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6353086 B1

L12: Entry 4 of 25

File: USPT

Mar 5, 2002

US-PAT-NO: 6353086

DOCUMENT-IDENTIFIER: US 6353086 B1

TITLE: Lactic acid residue containing polymer composition and product having improved stability, and method for preparation and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6320077 B1

L12: Entry 5 of 25

File: USPT

Nov 20, 2001

US-PAT-NO: 6320077

DOCUMENT-IDENTIFIER: US 6320077 B1

TITLE: Lactic acid processing; methods; arrangements; and, product

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6229046 B1

L12: Entry 6 of 25

File: USPT

May 8, 2001

US-PAT-NO: 6229046

DOCUMENT-IDENTIFIER: US 6229046 B1

TITLE: Lactic acid processing methods arrangements and products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6160173 A

L12: Entry 7 of 25

File: USPT

Dec 12, 2000

US-PAT-NO: 6160173

DOCUMENT-IDENTIFIER: US 6160173 A

TITLE: Process for the recovery of lactic acid esters and amides from aqueous solutions of lactic acid and/or salts thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6114495 A

L12: Entry 8 of 25

File: USPT

Sep 5, 2000

US-PAT-NO: 6114495

DOCUMENT-IDENTIFIER: US 6114495 A

TITLE: Lactic acid residue containing polymer composition and product having improved stability, and method for preparation and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 5844066 A

L12: Entry 9 of 25

File: USPT

Dec 1, 1998

US-PAT-NO: 5844066

DOCUMENT-IDENTIFIER: US 5844066 A

TITLE: Process for the preparation of lactic acid-based polyester

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 5753724 A

L12: Entry 10 of 25

File: USPT

May 19, 1998

US-PAT-NO: 5753724

DOCUMENT-IDENTIFIER: US 5753724 A

TITLE: Biodegradable/compostable hot melt adhesives comprising polyester of lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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